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09/540,180	03/31/2000	Sung-Hwa Gong	678-458 (P8993)	2621
66547 THE FARRELL LAW FIRM, P.C. 333 EARLE OVINGTON BOULEVARD SUITE 701 UNIONDALE, NY 11553			EXAMINER	
			CHAN, RICHARD	
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			2618	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 09/540,180 GONG, SUNG-HWA Office Action Summary Examiner Art Unit RICHARD CHAN 2618 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 December 2007. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 40-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 40-43 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner, Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) □ Some * c) □ None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/(wait Date 16/16/07.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

 Applicant's arguments with respect to claims 40-43 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 40, 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitchell et al. (US Patent 5,966,671) in view of Seymour (US Patent No. 6,529,713) and in further view of Griffin et al. (US Patent No. 6,873,317) and further in view of Yamagishi et al (US Patent No.6,178,338) and further in view of Gaskill (US 5,159,713).

Regarding claim 40, Mitchell teaches of a method for using a multi-function key with a protrusion adapted to slide in a first direction and a second direction substantially opposite to the first direction, and be pressed in a third direction substantially perpendicular to the first direction (as seen in Figure 3 and column 3, lines 8 - 25), a display for displaying at least one of digits and characters, as seen in Figure 2 and column 2. lines 55 - 65) and at least one hierarchal menu for selecting various functions

(column 2, lines 18 - 30), comprising the steps of generating at least one input signal by performing at least one of the following multi function key manipulations: a) pressing the protrusion of the multi-function key at least once to generate a first input signal; b) sliding the protrusion of the multi-function key in the first direction to generate a second input signal; and c) sliding the protrusion of the multi-function key in the second direction to generate a third input signal.

Mitchell does not specifically teach of in a watch-type portable phone or the watch-type portable phone having the multi-function key (though it should be noted that Mitchell's invention deals with reduction of size of the mobile through the use of a smart button as detailed in, for example, starting column 1, line 66 and ending column 2, line 12) or of wherein the at least one input signal is used to input the at least digits and characters (though it should be noted that Mitchell does provide for provisions for editing via criteria, as seen in table 2, lines 29 -33).

In a related art dealing with the carrying of small mobile, Seymour teaches of a watch-type portable phone or the watch-type portable phone (column 1, lines 5 - 14 and Figures 1 - 6).

It would have been obvious to one skilled in the art at the time of invention to have included into Mitchell's multi-function smart button, Seymour's wearable wrist watch configuration, for the purposes of carrying the reduced size mobile and conveniently using the mobile in such a position, as taught by Seymour.

Mitchell in view of Seymour do not specifically teach of wherein the at least one input signal is used to input the at least digits and characters.

In a related art dealing with a method to input characters in a mobile using one input device, Griffin teaches of wherein the at least one input signal is used to input the at least digits and characters (figure 2, element 1000 & column 5, lines 21-57, specifically, thumb wheel 1000 as described in column 5, lines 30-35, 45-57).

It would have been obvious to one skilled in the art at the time of invention to have included into Mitchell and Seymour's wearable mobile with multifunction system, Griffin's inputting methods, for the purposes of realizing an input device which can manage with less mounting space, as taught by Griffin.

However, Griffin fails to specifically disclose the multifunction thumb wheel as capable of entering at least one of digits and characters which are input by displaying sets of the at least one of digits and characters, sliding the protrusion in the up/down direction or the left/right direction, moving a cursor by generating at least one of the second and third input signals over at least one of a character and a digit displayed in the sets of the at least one of digits and characters, and selecting by generating the first input signal the at least one of the character and the digit below the cursor.

However, in related art of multi-function keys and data entry, Yamagishi teaches manipulation of a multi function key of a portable device using the key the enter data by at least one of digits and characters which are input by displaying sets of the at least one of digits and characters moving a cursor over at least one of a character and a digit displayed in the sets of the at least one of digits and characters, and selecting the at least one of the character and the digit below the cursor (see Yamagishi, column 3, lines 46-51, 52-65, column 4, lines 21-44).

However, Mitchell fails to specifically disclose wherein pressing the protrusion of the multi-function key 304 greater than a predetermined number of times to generate a fourth input signal.

However in related art, such as watch pager and wrist antenna art, the Gaskill reference discloses (Col.8 line 24-30) wherein based on the number of presses by the user to the key will be able to input a signal based on the number of presses by the user.

It would have been obvious to one skilled in the art at the time of invention to have included into Mitchell and Seymour's, and Gaskill wearable mobile with multifunction system as modified by, Griffin's and further utilize Yamagishi's multi function key inputting methods, for the purposes of realizing an input device which can manage with less mounting space and numerous text strings entering abilities that are more user friendly, as taught by Yamagishi and Gaskill.

Regarding claim 42, Mitchell further teaches of wherein the at least one input signal is further used to navigate through the at least one hierarchal menu (column 2, lines 18 -30).

Regarding claim 43, Mitchell further teaches of wherein the at least one input signal is further used to select a function (column 2, lines 18 -30).

 Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mitchell et al. (US Patent 5,966,671) and Seymour (US Patent No. 6,529,713) in view of Griffin Application/Control Number: 09/540,180 Page 6

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et al. (US Patent No. 6,873,317) and Yamagishi et al (US Patent No.6,178,338) and further in view of Gaskill (US 5,159,713) and further in view of Kunihiro (US Patent No. 5,915,228).

Regarding claim 41, Mitchell in view of Seymour, Griffin and Yamagishi fail to specifically disclose wherein each manipulation generates one of the first sub-input signal and a second sub-input signal, said first sub-input signal is generated if the manipulation is performed for a short duration and said second sub-input signal is generated if the manipulation is performed for a long duration. In related art, Kunihiro teaches first inputting is performed if the manipulation is performed for a short duration and a second inputting is performed if the manipulation is performed for a long duration as part of a thumb/wheel (Kunihiro, figure 4 and column 3, lines 41-63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a first inputting is performed if the manipulation is performed for a short duration and a second inputting is performed if the manipulation is performed for a long duration with the modified Mitchell's invention in order to provide the user with a timed judging procedure mode for inputting letters and characters.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD CHAN whose telephone number is (571)272-0570. The examiner can normally be reached on Mon - Fri (9AM - 5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard Chan/ Examiner, Art Unit 2618 /Nay A. Maung/ Supervisory Patent Examiner Art Unit 2684